Sheet 1 of 2 Form PTO 1449 U.S. Department of Commerce Atty. Docket No. Serial No. Mo-6884 / LeA 33,871 Patent and Trademark Office 10/030,928 Rev. 7-80 LIST OF PRIOR ART CITED BY APPLICANT Applicant (Use Several Sheets If Necessary) Ernst Rudolf F. Gesing et al Filing Date Group January 11, 2002 1625 U.S. PATENT DOCUMENTS **EXAMINER** FILING DATE INITIAL DOCUMENT NUMBER DATE NAME IF APPRO-**CLASS SUBCLASS** PRIATE (Bel. to corresp. to EP 431,291) 09/22/92 5.149.356 Muller et al AA 71 90 (Bel. to corresp. to EP 425,948 & EP 431,291) 3003 08/24/93 ٩B 5,238,910 Muller et al 504 273 DEC (Bel. to corresp. to EP 422,469 & EP 341,489) 5,241,074 08/31/93 548 Daum et al 263.8 (Bel. to corresp. to EP 422,469. EP 431,291, EP 425.948 & 01/04/94 AD 5,276,162 Muller et al 548 263.4 EP 341,489) THADEN (Bel. to corresp. to EP 534,266) 5,300,480 04/05/94 Haas et al 504 422,469, (Bel. to corresp. to EP EP 431,291 & EP 425,948) 01/10/95 5,380,863 263.6 AF Muller et al 548 (Bel. to corresp. to EP 425,948 & EP 431,291) AG 5,380,864 01/10/95 Muller et al 548 263.8 (Bel. to corresp. to EP 422,469 & EP 341,489) 04/11/95 5,405,970 548 AΗ Daum et al 263.6 534,266) (Bel. to corresp. to EP CA 01/30/96 504 5,488,028 ΑI Haas et al 193 (Bel. to corresp. to EP 422,469 & EP 341,489) 5,532,378 07/02/96 Daum et al 548 263.8 ΑJ 507,171) (Bel. to corresp. to EP 07/09/96 5,534,486 Muller et al 504 273 **FOREIGN PATENT DOCUMENTS** DOCUMENT NUMBER DATE COUNTRY **CLASS SUBCLASS** TRANSLATION Yes No 04/29/92 * 0 482 349 Europe AL AM * 97 03980 02/06/97 World 06/11/98 World ΑN * 98 24787 05/09/97 World ΑO * 97 16449 11/15/89 AP * 0 341 489 Europe OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Austr. J. Chem., 48 (month unavailable) 1995, pgs. 1907-1916, The Synthesis and Biological AR Activity of 'Crippled Biotin' by S. A. Henderson, J. O'Connor, A. R. Rendina, G. P. Savage and G. W. Simpson J. Org. Chem., 1980, 45, (month unavailable) pgs. 617-620, Aromatization of Dihydrothiophenes.

Thiophensaccharin: A Sweet Surprise by P. A. Rossy, W. Hoffmann, and N. Muller

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